



# Sure-Weld<sup>®</sup> TPO

## Square Tubing Wraps



### Overview

Carlisle's prefabricated Sure-Weld TPO Square Tubing Wraps are made of 60-mil (1.5 mm) TPO Detail Membrane, which provides enhanced flexibility and allows for the elimination of T-Joint Covers at crossovers. TPO Square Tubing Wraps incorporate a split and an overlap tab, allowing applicators to quickly and easily wrap square penetrations with obstructions. Available in standard white, TPO Square Tubing Wraps are stocked in four sizes: 3" x 3" (76.2 mm x 76.2 mm), 4" x 4" (101.6 mm x 101.6 mm), 5" x 5" (127 mm x 127 mm), and 6" x 6" (152.4 mm x 152.4 mm). Additional sizes and colors available on a special order basis.

Carlisle's TPO Square Tubing Wraps are part of the Certified Fabricated Accessory (CFA) program. Certified Fabricated Accessories are the only factory-fabricated TPO accessories that meet the stringent quality tolerances required to be included in a Carlisle warranted roofing system.

### Features and Benefits

- » Special, more flexible TPO Detail Membrane allows for the elimination of T-Joint Covers at crossovers
- » Easier to work with in colder temperatures
- » Required on 25- or 30-year warranties

### Productivity Boosting Features and Benefits:

- » Up to 60% labor savings compared to traditional field fabrication
- » Quick and simple installation with no stretching required
- » Provides a consistent, finished appearance



### Installation

1. Clean the penetration to eliminate any rust or scale and wipe with a Splice Wipe saturated with Weathered Membrane Cleaner.
2. Wrap the TPO Square Tubing Wrap around the penetration until the vertical leg is tight against the penetration.
3. Tack-weld the back edge of the TPO Square Tubing Wrap's vertical leg, ensuring that good contact is maintained between the tubing wrap and the penetration. This process will hold the TPO Square Tubing Wrap in place.
4. Heat-weld the entire width of the vertical overlap. Hand-roll against the outer surface of the penetration to create the pressure necessary to achieve an acceptable weld.
5. Heat-weld the base flange to the deck membrane and complete the horizontal overlap weld.
6. Once the flashing has completely cooled, check all splices for voids and cold-welds. Make any needed repairs.
7. Use TPO Primer to prime the area at top of wrap, including steel tubing, to receive white uncured flashing.
8. Wrap a piece of 6"- (152.4 mm) wide Pressure-Sensitive (PS) Sure-White<sup>®</sup> Elastoform Flashing<sup>®</sup> (included in the box) around the penetration. Center flashing 3" (76.2 mm) on TPO wrap and 3" (76.2 mm) on steel tubing. The flashing should overlap approximately 1" (25.4 mm).
9. Use a 2" (50.8 mm) roller to roll the PS Elastoform Flashing, creating a good bond to all surfaces.
10. Apply a bead of Universal Single-Ply Sealant at the top of the tubing wrap so the PS Elastoform Flashing and the top of the TPO Square Tubing Wrap are covered with sealant.
11. Apply TPO Cut-Edge Sealant to all edges of the Square Tubing Wrap that are located on the deck. Do not apply the sealant to vertical surfaces.

*Review Carlisle specifications and details for complete installation information.*

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### Precautions

- » Remove all lead and other flashing.
- » Temperature of tube must not exceed 160°F (71°C).
- » Install a minimum of four fastening plates around square penetrations on mechanically fastened systems. The plates must be covered with a heat-welded reinforced TPO membrane with a 1½" (38.1 mm) minimum weld maintained beyond the outside of the plates.
- » The flange size of the Square Tubing Wrap is designed to allow four fastening plates to fit around the square penetration plus 1½" minimum weld beyond the outside of the plates. All should fit under the Square Tubing Wrap flange.
- » Store in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. TPO Square Tubing Wraps or membranes that have been exposed to the weather prior to use must be prepared with Weathered Membrane Cleaner before hot-air welding.

### Typical Properties and Characteristics

Sizes	3" x 3" (76 mm x 76 mm) 4" x 4" (102 mm x 102 mm) 5" x 5" (127 mm x 127 mm) 6" x 6" (152 mm x 152 mm)
Height	11" (279 mm)
Packaging	8 per box
Weight (box)	3" x 3" - 11 lbs (5 kg) 4" x 4" - 12 lbs (5.4 kg) 5" x 5" - 13 lbs (5.9 kg) 6" x 6" - 15 lbs (6.8 kg)
Material	Reinforced 60-mil (1.53 mm) TPO Detail Membrane
Color	White

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification or specification range for any particular property of this product.

### LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Piedmont, SC Eugene, OR
Solar Reflectance Index (SRI)	White: 99